

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
28 July 2005 (28.07.2005)

PCT

(10) International Publication Number
WO 2005/068974 A1

(51) International Patent Classification⁷: **G01N 21/21**,
33/36

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(21) International Application Number:
PCT/AU2005/000061

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(22) International Filing Date: 20 January 2005 (20.01.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
2004900263 20 January 2004 (20.01.2004) AU

(81) Designated States (*unless otherwise indicated, for every kind of national protection available*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

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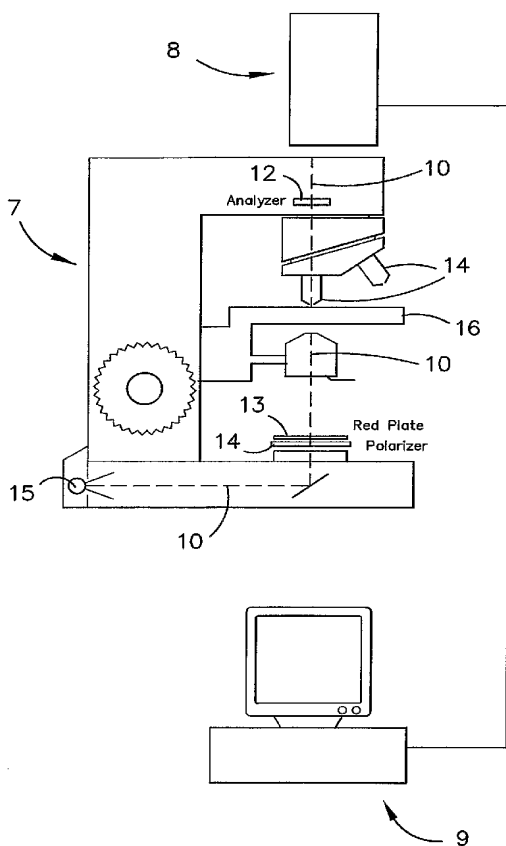
(84) Designated States (*unless otherwise indicated, for every kind of regional protection available*): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,

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[Continued on next page]

(54) Title: METHOD AND APPARATUS FOR TESTING FIBRES



(57) Abstract: A method for measuring the maturity or cell wall thickening of a sample of cellulosic fibre including the steps of: a) exposing the sample of fibre to polarized light; b) capturing one or more images of the sample through crossed polar lenses and a compensator plate so that the image(s) include interference colours from the sample; and c) conducting computer analysis on the image(s) captured in step b) to determine the maturity or degree of cell wall thickening of the cellulosic fibre by comparing the image(s) to reference colour interference data. The apparatus for carrying out the method includes an optical light path (10) for exposing the sample of fibre to polarized light, an image capturing means (8), and a computer (9) for conducting image analysis to determine fibre maturity or the degree of cell wall thickening.

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ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,
FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO,
SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN,
GQ, GW, ML, MR, NE, SN, TD, TG).

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Published:

— *with international search report*